

Patent Abstracts of Japan

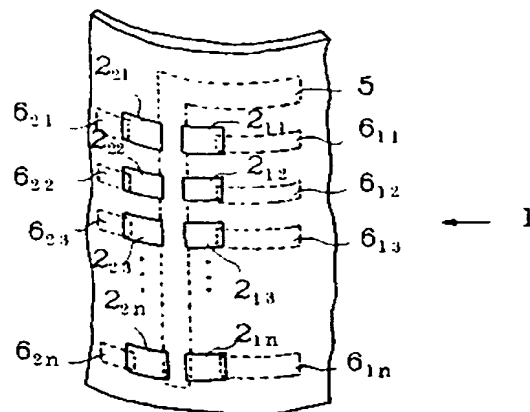
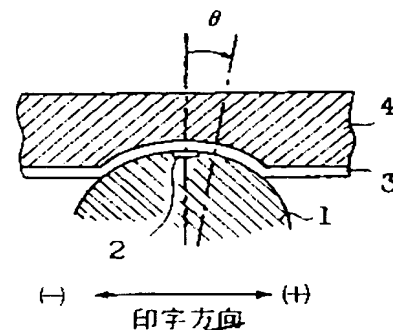
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TITLE : THERMAL PRINTER



ABSTRACT : PURPOSE: To print with uniform color density, by a method wherein the resistance value of a heating element in the row not being used is detected and power for driving is controlled, in a thermal head provided with heating elements placed in two rows on the outside peripheral surface of a cylindrical substrate.

CONSTITUTION: When the center line of the head 1 is maintained to be orthogonal to a thermal printing paper 3 and a platen 4, the maximum color density can be obtained by a method wherein the printing in the printing direction (+) is performed by the electrode provided at a position inclined by an angle of $+\theta_0$ and the printing in the printing direction (-) is performed by the electrode provided at a position inclined by an angle of $-\theta_0$. A common electrode 5 is provided between the two rows of the heating electrodes $2_{11} \sim 2_{1n}$, $2_{21} \sim 2_{2n}$, and the angle of each of the elements is set at the angle of θ_0 , whereby it is enabled to print favorably. In this case, the resistance value of the heating element in the row not being driven is detected and the width of a driving pulse for the head is changed by an output of the detection, whereby the color density on the thermal printing paper is maintained to be constant.

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